

IN THE SPECIFICATION:

Page 10, lines 25-33, replace the paragraph with the following amended paragraph.

Main parts of an X-ray system 50 are illustrated in Fig. 5a, specifically an imaging device with an imaging unit 51 and an X-ray emitter 52, in which the object to be examined in the form of a patient's head 53 is positioned between the X-ray emitter 52 and the imaging unit 51. For the production of a panoramic tomographic image, the X-ray beam 54 emitted from the X-ray emitter 52 is directed to the image detector 4 constructed in the form of a line detector, so that the required length for producing a PAN image of the upper and lower jawbones is provided. The detecting unit 51 and X-ray emitter 52 are mounted on a common support and are adapted for movement around at least part of the object to be examined.